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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-11-29-08** **Date: 01-12-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/74/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-17
Sample ID No	:	2017-11-29-08 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	528	510	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	548	633	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	573	680	20.0%	Satisfactory	Satisfactory

Note:

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ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-11-29-08** **Date: 04-12-17**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/74/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-11-17

Sample ID No : 2017-11-29-08 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.58	100.18	1.247	4486	112.9	25.2	23.4	29.3
2	Cover Slab-2	75.27	100.83	1.236	4449	108.3	24.3	22.6	28.3
3	Cover Slab-3	75.81	100.71	1.412	4513	111.5	24.7	23.0	28.7

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2017-11-29-08** **Date: 04-12-17**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/74/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-11-17

Sample ID No : 2017-11-29-08 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.64	165.81	2.848	7953	134.1	16.9	16.9	21.1
2	B	100.32	165.92	2.739	7903	135.2	17.1	17.1	21.4
3	C	100.72	165.78	2.852	7966	134.2	16.8	16.8	21.1

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-09** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/74/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-09 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/12/2017	14/12/2017	151.55 X 150.54 X 150.98	22814	8.172	394.7	17.3	17.1
2	M20 Concrete	M20	07/12/2017	14/12/2017	151.97 X 150.22 X 150.42	22829	8.148	392.7	17.2	
3	M20 Concrete	M20	07/12/2017	14/12/2017	150.76 X 150.87 X 150.19	22745	8.107	379.8	16.7	

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-09** **Date: 04/01/2018**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/74/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-09 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/12/2017	04/01/2018	151.22 X 150.28 X 151.54	22725	8.189	502.2	22.1	21.6
2	M20 Concrete	M20	07/12/2017	04/01/2018	150.98 X 151.44 X 149.05	22864	8.154	489.3	21.4	
3	M20 Concrete	M20	07/12/2017	04/01/2018	151.32 X 151.86 X 151.04	22979	8.126	491.8	21.4	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-09** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/74/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-09 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/12/2017	14/12/2017	150.32 X 150.34 X 150.35	22599	8.341	395.5	17.5	17.3
2	M20 Concrete	M20	07/12/2017	14/12/2017	150.22 X 150.24 X 150.25	22569	8.301	385.9	17.1	
3	M20 Concrete	M20	07/12/2017	14/12/2017	150.29 X 150.24 X 150.25	22580	8.289	390.6	17.3	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-09** **Date: 04/01/2018**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drain and covering slab at Kalashrinagara main road and cross roads near Kaliyamma temple in ward no.15 T. Dasarahalli.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/74/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-09 /04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/12/2017	04/01/2018	150.22 X 150.24 X 150.25	22569	8.241	498.8	22.1	21.8
2	M20 Concrete	M20	07/12/2017	04/01/2018	150.32 X 150.34 X 150.35	22599	8.331	492.7	21.8	
3	M20 Concrete	M20	07/12/2017	04/01/2018	150.30 X 150.34 X 150.31	22596	8.319	485.8	21.5	

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